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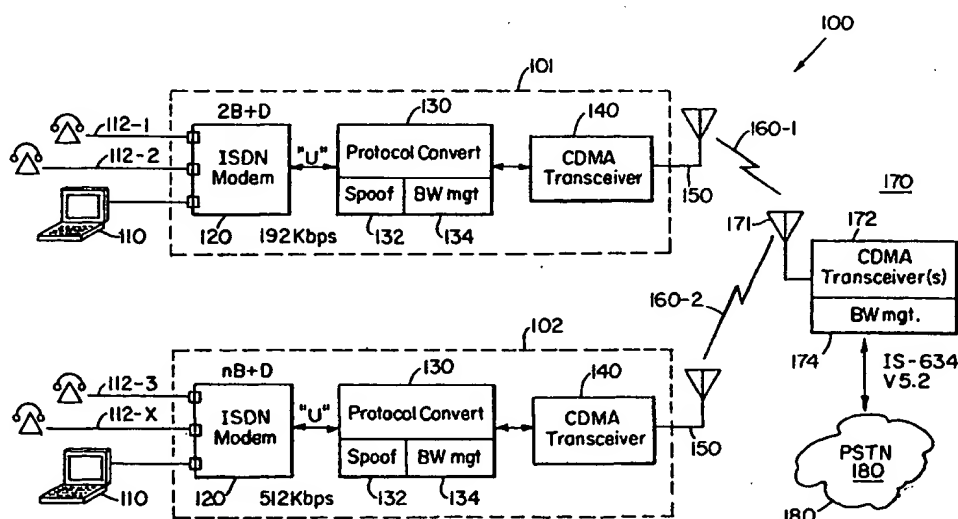
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>H04Q 7/22</b>	<b>A3</b>	(11) International Publication Number: <b>WO 98/59523</b> (43) International Publication Date: 30 December 1998 (30.12.98)
(21) International Application Number: PCT/US98/12740 (22) International Filing Date: 18 June 1998 (18.06.98) (30) Priority Data: 60/050,338 20 June 1997 (20.06.97) US 60/050,277 20 June 1997 (20.06.97) US 08/992,760 17 December 1997 (17.12.97) US (71) Applicant: TANTIVY COMMUNICATIONS, INC. [US/US]; Suite 300, 2200 Front Street, Melbourne, FL 32901 (US). (72) Inventors: GORSUCH, Thomas, E.; 530 Franklin Avenue, Indialantic, FL 32903 (US). AMALFITANO, Carlo; 705 Riverside Drive, Melbourne Beach, FL 32951 (US). (74) Agents: THIBODEAU, David, J., Jr. et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02173 (AU).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> (88) Date of publication of the international search report: 25 March 1999 (25.03.99)

(54) Title: DYNAMIC BANDWIDTH ALLOCATION TO TRANSMIT A WIRELESS PROTOCOL ACROSS A CODE DIVISION MULTIPLE ACCESS (CDMA) RADIO LINK



(57) Abstract

A technique for transmission of wireless signals across CDMA radio links. Bandwidth is allocated dynamically within a session to specific CDMA subscriber unit based upon data rate determinations. Specifically, a dynamic bandwidth allocation algorithm operates from limits calculated based upon available ports per subscriber, expected user bandwidth, and parallel user bandwidth versus throughput. Provisions for priority service, unbalanced forward and reverse spectrum utilization, voice prioritization, and band switching are also made.

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 98/12740

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 682 423 A (AT & T CORP) 15 November 1995 see column 1, line 43 - line 57 see column 5, line 53 - column 8, line 1 see column 9, line 5 - line 11 see figure 5 ---	1-5, 7, 8, 10, 11
X	EP 0 719 062 A (AT & T CORP) 26 June 1996  see column 1, line 39 - column 2, line 35 see column 3, line 48 - line 54 see column 4, line 31 - line 53 see column 5, line 10 - line 15 see column 8, line 37 - column 10, line 5 see claims 1-8 --- -/--	1, 4, 5, 7, 8, 10, 11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

10 December 1998

Date of mailing of the international search report

17/12/1998

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International Application No  
PCT/US 98/12740

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 37081 A (ROKE MANOR RESEARCH ;DAVIS SIMON PAUL (GB)) 21 November 1996 see page 4, line 9 - page 7, line 12 see page 10, line 2 - line 5 ---	1,2,8
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A	EP 0 526 106 A (AMERICAN TELEPHONE & TELEGRAPH) 3 February 1993 see column 5, line 28 - column 9, line 23 -----	9

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Information on patent family members

International Application No

PCT/US 98/12740

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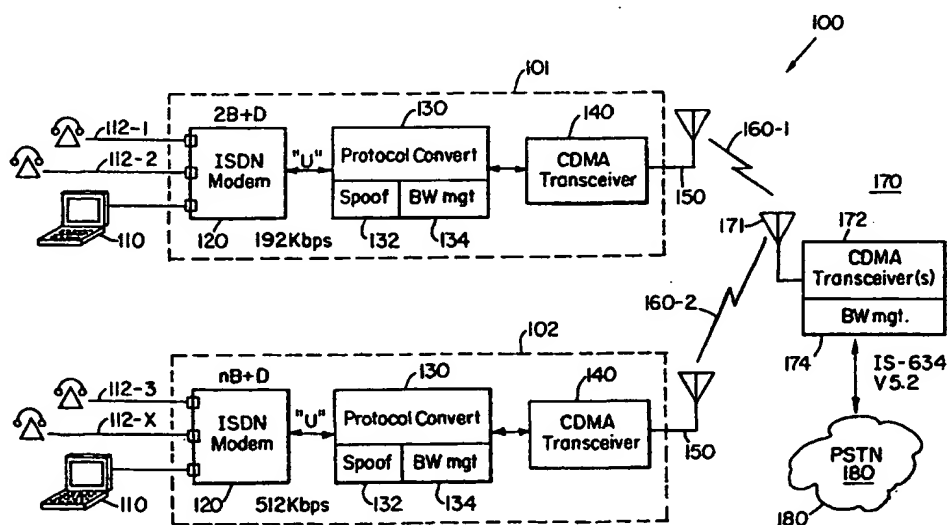
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